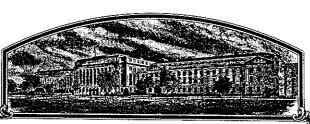
No.



8500196

THE UNKHAD SHATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Aubrizol Genetics, Inc.

Talkereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE; IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT ETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT

WHEAT

'5469'

In Lestimonn Winercot, I have hexeunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, v. c. this 29th day of September in the year of our Lord one thousand nine hundred and eighty-nine.

Allen

Kenneth H Evans

Plant Varisty Protection Office Agricultural Marketing Servics

Secretary of Agriculture)

	31.31.			APPR	OVAL EXPIRE	ES 4-30-85
U.S. DEPARTM AGRICULTURA	ENT OF AGRICULTS	JRE /ICF			D: OMB NO.	
**		, 132			uired in order to protection certi	
APPLICATION FOR PLANT VA	ARIETY PROTE	CTION CERTIFICATE			C. 2421). Info	
and the second s	tions on reverse)	CHON CENTIFICATE			until certificat	te is issued
	•		-	S.C. 2426).		
1. NAME OF APPLICANTS) LUBRIZOL GENETICS	INCO	2. TEMPORARY DESIGNATION 5469	3. V	ARIETY NA		•
Agrigenetics Research Associ	lates Limited	5469		54	69	
4. ADDRESS (Street and No. or R.F.D. No., City,	, State, and Zip Code)	5. PHONE (Include area code)			CIAL USE ON	LY
3375 Mitchell Lane 24,900 LAKELAND BOULE	EVARD		PVP	NUMBER		
Boulder Colorado 80201		(303) 443-5900		850	00196	
	792	L			<u> </u>	
6. GENUS AND SPECIES NAME	7. FAMILY NA	ME (Botanical)	ی ا	DATE	E 100E	
Writian costinus	Commercia		FILING	⊢ – - –	5, 1985	
Triticum aestivum	Gramine	ae	∄	TIME	[V]	
. KIND NAME		· · · · · · · · · · · · · · · · · · ·		11:00	X A.M.	P.M.
E KIND NAME	9.	DATE OF DETERMINATION		4	FOR FILING	
Hard Red Winter Wheat		August 1984	□ □	\$1,800		
'n				DATE		
O LE TUE ADDITIONAL NAMED TO LOT A LITE			RECEIVED	8/5/85	FOR CERTIFIC	CATE
 IF THE APPLICANT NAMED IS NOT A "PE partnership, association, etc.) 	RSON," GIVE FORM	OF ORGANIZATION (Corporation		744	6-6	CAIE
Colorado Limited Partnersh	to coppo	O ATT A	FEES	\$ 200		
outorage simplex rareingroup	LP CORTO	RHIJON	"	DATE	E. 15.19	89
1. IF INCORPORATED, GIVE STATE OF INCO	2000 47:01		100	DATE OF IN		
NEVADA	PAPORATION		12.	JAIE OF IN	CORPORATIO) N
3. NAME AND ADDRESS OF APPLICANT REP	PRESENTATIVE(S) I	E ANY TO SERVE IN THIS ARRI	CATIO	N AND REC	ELVE ALL PA	PERS
Jim Cilchrist LORAN	CE L. GRI	SENLEE	CATIO	N AND REC	EIVE ALLIA	
	P. WINNE	6	-		•	
CORPER	WIFE AND A	CONTATES		1303) 499-8	080
500tt City, K5 67871 53.70	MANHATTAN	CIRCLE, SULTE 20	 res code	. 4263	872 7204	
BOWL. 14. CHECK APPROPRIATE BOX FOR EACH AT	<u> </u>	3 4 3	·>-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0/2-/201	
a. Exhibit A, Origin and Breeding Histor		1 To		4.4.1		
, , , , , , , , , , , , , , , , , , ,	y of the variety (See	Section 32 of the Punt Vanety Pr	otectio	п Асы)		
	i i e					
		from Plant Variety Protection Off	ice.)			
<u></u>	•					
e. Exhibit E, Statement of the Basis of A				· · · · · · · · · · · · · · · · · · ·		
5. DOES THE APPLICANT(S) SPECIFY THAT SEED? (See Section 83(a) of the Plant Variety	SEED OF THIS VARI y Protection Act.)	Yes (If "Yes," answer				X No
6. DOES THE APPLICANT(S) SPECIFY THAT		17. IF "YES" TO ITEM 16,			······	<u> </u>
LIMITED AS TO NUMBER OF GENERATIO	NS?	BEYOND BREEDER SE	ED?			
Yes No		Foundation	<u> </u>	legistered	c	ertified
8. DID THE APPLICANT(S) PREVIOUSLY F	ILE FOR PROTECT	ON OF THE VARIETY IN THE	J.S.7	_	Yes (If "Yes."	give date)
					,	J,
•				ra	No	
HACTHE VARIETY DESCRIPTION	FEDER 500.00	00111045755	2	<u> </u>		
9. HAS THE VARIETY BEEN RELEASED, OF	FERED FOR SALE,	OH MARKETED IN THE U.S. OF	- UTHI	ER COUNTS	RIES ? Yes (<i>If "Yes,"</i>	' give name
•		•			of countries a	nd dates)
				(A)	No	
O. The applicant/a) deslare/) at	1_	6.1:	1 . 1	<u> </u>		h a ===
The applicant(s) declare(s) that a viable s plenished upon request in accordance with	ample of basic seed th such regulations	s or this variety will be furnishe as may be applicable	d with	the applica	tion and will	oe re-
					(a) ahaa aha	oriaty is
The undersigned applicant(s) is (are) the distinct, uniform, and stable as required i Variety Protection Act.	in Section 41, and is	sentitled to protection under the	riety, ie prov	isions of Se	ection 42 of t	he Plant
Applicant(s) is (are) informed that false r	epresentation herei	n can jeopardize protection and	result	in penaltie	s.	
IGNATURE OF APPLICANT	1	Jackarda Statestian and		DATE		
	1			<i></i>	. / //-	
Danier & M. Valing	/			7-24	1-85	and the second
IGNATURE OF APPLICANT					·	
7			"	DATE:		3.
					A company of the comp	

FORM WA-470 (7-84) (Edition of 3-84 is obsolete.)

14A: Origin and Breeding History of '5469'

Pedigree: Red River 68/SR1900

SR 1900 is a brown chaff semidwarf winter wheat selected from an interspecific cross.

'5469' was derived from a single plant selection in the F10 generation. '5469' is a brown chaff semidwarf hard red winter wheat. Chaff color is similar to Plainsman V. '5469' does not have the resistance to soil borne mosaic virus that Plainsman V has.

'5469' appears stable and uniform through the seed increase program. Tall offtypes occur at a rate of approximately .01% and white chaff offtypes occur at a rate of approximately .01%.

14B. Exhibit B: Novelty Statement

'5469' is most similar to 'Plainsman V'. '5469' is susceptible to Soil Borne Mosaic Virus and 'Plainsman V' is resistant.

ST BAMBAR

CHANGE I - BOOKWING

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, POULTRY, GRAIN & SEED DIVISION BELTSVILLE, MARY LAND 20705

EXHIBIT C (Wheat)

OBJECTIVE DESCRIPTION OF VARIETY WHEAT (TRITICUM SPP.)

NAME OF APPLICANT(S)	FOR OFFICIAL USE ONLY
Agrigenetics Research Associates Limited	8500196
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) 3375 Mitchell Lane	VARIETY NAME OR TEMPORARY
	DESIGNATION - COMMISSION - COMI
Boulder, Colorado 80301	5469
Place the appropriate number that describes the varietal character of this varietal Place a zero in first box (c-s-089) or 09) when number is either 99 o	ety in the boxes below. r less or 9 or less.
1. KIND:	
1 1 = COMMON 2 = DURUM 3 = EMMER 4 = SPELT 5 = POLISH	6 = POULARD 7 = CLUB
2. TYPE:	FT 3 = OTHER (Specify)
2 1 = SPRING 2 = WINTER 3 = OTHER (Specify) 2 2 = HA	ARD
2 I = WHITE 2 = RED 3 = OTHER (Specify)	
3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO:	
2 2 7 FIRST FLOWERING	LAST FLOWERING
. MATURITY (50% Flowering):	
0 6 NO. OF DAYS EARLIER THAN	ARTHUR 2 = SCOUT 3 = CHRIS
	EMHI 5 = NUGAINES 6 = LEEDS 7=Tam 10
	Richard Bentral Con
	and the second of the second o
0 8 4 CM. High	$\sqrt{\epsilon a_0} \cdot 3^{\frac{1}{2}} \delta$
0 3 CM. TALLER THAN	
CM: SHORTER THAN TO THE STORE SHORTER THAN THE STORE STORE SHORTER THAN THE STORE ST	A MEC A # 1 EEDS / #OM I
PLANT COLOR AT BOOTING (See reverse): 7. ANTHER	
	LLÓW 2 = PURPLE
STEME TO THE STEME TO THE STEEL STEE	<u> Paragonal de la composición de la co</u>
	loom: 1 = ABSENT 2 = PRESENT
The control of the control with the control of the	والريكة أنجه والمعاودة والمحافر والأراز والأوراث أبدائه والمجارة والمؤار والمحارث والمحارب المرازية
Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT 1 Interno	dest-1 = HOLLOW 2- SOLID
	M. INTERNOOF LENGTH BETWEEN FLAGLEAF
AURICLES:	
Anthocyanin: 1 = ABSENT 2 = PRESENT 1 Hairine	ss: = ABSENT 2 = PRESENT
LEAF, The Secretary of the Company o	THE WELLOW FOR THE PARTY OF THE
Flag leaf at T = ERECT 2 = RECURVED	and the second of the second o
booting stage: 3 = OTHER (Specify): 1 Flag le	ALL DENOT TWISTED 2 = TWISTED
Hairs of first leaf sheath: 1 = ABSENT 2 2 = PRESENT 2 2 Wazy b	loom of flag leaf sheath: T = ABSENT 2 = PRESENT
9 MM. LEAF WIDTH (First leaf below flag leaf) 2 0 C	M. LEAF LENGTH (First lest below flag leaf):
RM LPGS-470-6 (3-79) (Formerly Form GR-470-6 (2-73), which may be used)	

11, HEAD:			8500196
Density: 1 = LAX	mid – 2 = DENSE Notice and American and Design (No. 1982) No.	Shape: 1 = TAPERIN 4 = OTHER (S	G 2=SERAP 3=CLAVATE
1 1	1996年 - 1995年 1996年 1996年 1996年 1996年 - 1997年	ومورورون والمراجع والمراجع المراجع المراجع المراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع	en proposition was recommended in the same and the contribution of
	LESS 2 = APICALLY AWNLETED 3		## 11 Continue with the work specification of
Color at maturity: 5	= WHITE 2 = YELLOW 3 = PINK 4 = = BROWN Mark 6 == BLACK Work 7 = OTHER	RED (Specify):	disenting a production and section
0 8 CM: LENGTH	o to the Rectal manager of the more manager to the con-	1 3 MM. WIDTH	· ·
12. GLUMES AT MATURI			
2 Length: 1 = SMORT	(CA. 7 mm.) 2 = MEDIUM (CA. 8 mm.) CA. 9 mm.)	2 Width: 1 = NARROW(3 = WIDE (CA.	CA. 3 mm.) 2 = MEDIUM (CA. 3.5 mm. 4 mm.) 5 1 mm. (CA. 3.5 mm.)
Shoulder 1 = WANTI	NG 2 = OBLIQUE 3 = ROUNDED RE 5 = ELEVATED 6 = APICULATE	3 Beak: 1 = OBTUSE	2 = ACUTE 3 = ACUMINATE
13. COLEOPTILE COLOR		14. SEEDLING ANTHOCYA	VIN1
	ED 1773 EPURPLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 = ABSENT 2 =	
15. JUVENILE PLANT GR	OWTH HABIT: WAS TO BE	8 4 1 1 8 2 4 4 2 3 2	ARE STATE
1 1 = PROSTRATE	2 = SEMI-ERECT 3 = EREC	т	•
16. SEED:	<u>e transporter de la companya de la</u>		
	· · · · · · · · · · · · · · · · · · ·		
Shape: = OVATE	2 = OVAL 3 = ELLIPTICAL	1 Cheek: 1 - ROUNDER	2 = ANGULAR
1 Brush. 1 = SHORT	2 = MEDIUM 3 = LONG		LARED 2 = COLLARED
Phenol teaction (See Instructions):	1 = IVORY 2 = FAWN 3 = LT. BROWN 4 = BROWN 5 = BLACK		en in 1911 de la companya de la com La companya de la co
Golor: I = WHITE	2 = AMBER 3 = RED 4 = PURPLE	5 = OTHER (Specify)	
0 7 MM. LENGTH	0 3 MM. WIDTH	3 2 GM. PER 1000 SI	EEDS
17. SEED CREASE:			
1 1	LESS OF KERNEL 'WINOKA'	121	LESS OF KERNEL 'SCOUT'
the said and a second	ESS OF KERNEL 'CHRIS' AS WIDE AS KERNEL 'LEMHI'	_	LESS OF KERNEL 'CHRIS' LESS OF KERNEL 'LEMHI'
	ted. 1 = Susceptible, 2 = Resistant)	V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
2 STEM RUST (Races)	LEAF RUST	O STRIPE RUST	O LOOSE SMUT
O POWDERY MILDEW	O BÚNT	OTHER (Specify)	
19. INSECT: (0:= Not Test	ed, 1 = Susceptible, 2 = Resistant)		
O SAWFLY	O APHID (Bydv.)	O GREEN BUG	O CEREAL LEAF BEETLE
OTHER (Specify)	HESSIAN FLY		□ , □c
	RACES:	^	<u></u> = ' = ' = ' = ' = ' = ' = ' = ' = ' =
	(17000)	0 =	F G
20. INDICATE WHICH VARI	ETY MOST CLOSELY RESEMBLES THAT S	UBMITTED:	
CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	Plainsman V	Seed size	Plainsman V
Leaf size	Plainsman V	Seed shape	Plainsman V
Leaf color	Plainsman V	Coleoptile elongation	Plainsman V
Leaf carriage	Plainsman V	Seedling pigmentation	Plainsman V
CENERAL. The following	INSTRU		and procedures for completing this form

(a) L.W. Briggle and L. P. Reitz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States, Technical PRE Bulletin 1278, United States Department of Agriculture.

(b) W.E. Walls, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, contribution No. 28 to the Mandelogic seed testing prepared by the Association of Official Seed Analysts. (See attachment.)

LEAF COLOR: Nickerson's or any recognized color fan should be used to determine the leaf color of the described variety

FORM LPGS 470-6 (3-79) (Reverse)

0-

14D. Exhibit D: Additional Description of '5469'.

'5469' is a common hard red winter wheat, Triticum aestivum L.

'5469' is most similar to 'Plainsman V' in flowering date. At Scott City, Kansas, when planted about October 1, average flowering is May 18 or 227 days after emergence. '5469' averages six days earlier than Tam 105. It is recognized that day length and seasonal temperatures influence flowering of varieties differentially.

'5469' has averaged 84 cm in height in Kansas, the same as Tam 105.

Juvenile plant growth is prostrate. At booting, the plant color is bluegreen.

The anther color is yellow.

A moderate waxy bloom occurs on the stem. Internodes are hollow. The flag leaves are recurved at booting and generally not twisted. Hairs on the first leaf sheath are absent. A moderate level of waxy bloom occurs on the sheath of the flag leaf.

Spikes of '5469' are mid dense, fusiform, awned, and brown at maturity. Spike width and length are variable with production level and population, averaging about 8 cm long and 13 mm wide.

Glumes of '5469' are medium in length and width. Shoulders are square and beaks are acuminate.

Coleoptile color of '5469' is white. Seedling anthocyanin is absent. Kernels are red in color and ovate in shape, with rounded cheeks and mid deep crease. The brush is short and not collared. Kernels average 7 mm long and 3 mm wide and about 32 gm per 1000 seeds. The phenol reaction is brown.

'5469' has moderate resistance to leaf rust.

'5469' appears stable and uniform through the seed increase program. Tall offtypes occur at a rate of approximately .01% and white chaff offtypes occur at a rate of approximately .01%.

Experiment 1985 At Allhins

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ample				Wheat						Tex / Flour		*				
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Seed Research

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17	65-12	7553			14.5								[_
18	58-4	7579			15.2							1	
	44-3				14.8								
	50-4				15.0								
21													
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23	83-22	4002	15.4	72	1481	14.7	14.9	104	2/2	1128	0		$\overline{}$
	93-22		15.4										
	83-34		14.9	68	14.6	4,4	147	6.5	e . m	1147	2.5		
	93-28		15.0	70	13.87	18.	15.9	68	3	1.200	2		
27	23-32	74/3	15.0	75	14.01	52	14.2	4.7	3/8	10.38	3		
28	93-16	7444	/5.0	66	14.1.1	4.8	14.2	65	438	120	1.5	· .	
29	83-27	7472			14.5								
30	23.50	7473	12.4	68	11.2	15.8	11.4	62	512	278	2		·
31													
32	35-70	TAM 105	12.5	72	11.8 1	5.0	11.9	4.3	3	<i>853</i>	2.5		
33	25-7/	NEWTON	13.3	70	11.8 1	15.4	12.0	45.	374	994	2		
34													<u> </u>
35	50-18	PLV	17.9	74	17.71	4.9	17.9	71	3/8	1187	2		
36	35-67	5210	14.8	70	14.21	51	144	67	254	1154	2.5		
	29-69	3466	16.4										
		5474								1274			
		5651	17.9	7.7	18.0	اللك	13.1	73	2 1	1548	1		
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41		5685	, ₁₁		14.6			ì	•		1		-
	<u> 58-3</u>	5686	1		14.01						2.5		
	51-5		15.1		13.8							<u></u>	
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40	<i>5</i> 5-3	6110	14.0	7.5	16.21	14.61	11, 3	1.68	: 72	I_{n-1}	3	1	<u></u>

14E. Exhibit E: Statement of Ownership

The Seed Research program is funded by Agrigenetics Research Associates Limited, giving them full rights to all patentable material emerging from the program.

Application No.: 8500196 Filing Date: August 5, 1985

ASSIGNMENT

WHEREAS WE, AGRIGENETICS RESEARCH ASSOCIATES LIMITED, (herein called "ASSIGNOR"), a limited partnership organized and existing under the laws of the State of Colorado, having a principal place of business at c/o Agrigenetics Research Corporation, 29400 Lakeland Boulevard, Wickliffe Ohio 44092, are owners of the wheat variety 5469, for which we have executed an application for a Plant Variety Protection (PVP) Certificate, Serial No. 8500196;

WHEREAS, LUBRIZOL GENETICS, INC. (herein called "ASSIGNEE"), a corporation organized and existing under the laws of the State of Nevada having a principal place of business at 29400 Lakeland Boulevard, Wickliffe, Ohio, is the owner of said Plant Variety Protection application by exercise of its option to acquire all research assets of ASSIGNOR in December of 1985; and

WHEREAS, ASSIGNEE wishes to record its title to said Plant Variety Protection application, by means of recordation of this document evidencing its legal title thereto;

NOW, THEREFORE, in consideration of the premises and the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration the receipt of which is hereby acknowledged, we the said ASSIGNOR, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said variety, and the said Plant Variety Protection application;

AND WE HEREBY authorize and request the United States Department of Agriculture to issue the PVP Certificate for said variety to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith;

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said variety, and testify in any legal proceeding, sign all lawful papers, execute all applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said variety.

IN TESTIMONY WHEREOF, we hereunto set our hands and seals the day and year set opposite our signatures.

AGRIGENETICS RESEARCH ASSOCIATES LIMITED

Dated: Nov 3 , 1988

BRUCE H. GRASSER President